

# Work Order ID 78709

January-13-12 7:06:49 AM

**\*78709\***

Page 1

Item ID: D3162-041 Accept **\*N900040100\*** Setup Start **\*NS1\***  
 Revision ID: Stop **\*NS2\***  
 Item Name: Bracket Assembly  
 Start Date: 12/01/2012 Start Qty: 20.00 **\*20\*** Cust Item ID:  
 Required Date: 26/01/2012 Req'd Qty: 20.00 **\*20\*** Customer:  
 Reference:

Approvals: Process Plan: M.C.J Date: 12/01/13 Tooling: Date: Run Start **\*NR1\***  
 QC: Date: SPC (Y/N): Date: Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D3162	Rev C

100 0.00  
**\*100\*** FLOW WATER JET  
 Waterjet Memo 0.00  
 FLOW CNC Waterjet 1-Cut as per Dwg D3162 Dwg Rev: C Prog Rev: C 2-  
 Deburr if necessary  
 6661 063

110- 0.00  
**\*110\*** QC2- Inspect parts off machine FAI/FAIB  
 QC Memo 0.00  
 Quality Control

120 0.00  
**\*120\*** QC8- Inspect parts - second check  
 QC Memo 0.00  
 Quality Control

SMB  
12/8/16

DAS  
16  
2-09

7/06/17

21  
center

12-8-16

12-8-16

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

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Page 2

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 Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130		0.00							
<b>*130*</b>	Small Fab					21			SB 12/08/12
Small Fab	Memo	0.00							
Small Fab	1-Deburr break all unmarked sharp edges .005 to 0.010								
	2-C'sink holes as per Dwg D3162								
132		0.00							
<b>*132*</b>						21			SB 12/08/12
Brake NC	Memo	0.00							
Brake NC	Form as per dwg								
135	QC5- Inspect part completeness to step on W/O	0.00							
<b>*135*</b>						21			
QC	Memo	0.00							
Quality Control									

Smf  
12-8-22

DAS  
16  
9-88

2108/12

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

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Page 3

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 Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
140	Chemical Conversion Coat per QSI005 4.1	0.00							
<b>*140*</b>						21	76/12-8-23		
HandFinish	Memo	0.00							
Hand Finishing									
150	Small Fab	0.00							
<b>*150*</b>						21			
Small Fab	Memo	0.00							
Small Fab	Assemble as per drawing								
160	QC5- Inspect part completeness to step on W/O	0.00							
<b>*160*</b>						21			
QC	Memo	0.00							
Quality Control									

SMB  
12-8-23



76/12-8-23

*[Handwritten signature]*  
12/08/23

**Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_  
 Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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**NOTE:** Date & initial all entries

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Page 4

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Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
170	Identify as per dwg & Stock Location: <u>031</u>	0.00							
<b>*170*</b>									
Packaging	Memo	0.00		SP		21	2	12/8/27	
Packaging									
180	QC21- Final Inspection - Work Order Release	0.00							
<b>*180*</b>									
QC	Memo	0.00							
Quality Control									

CK 12/8/27  
 MFC  
 12-08-27

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



# Picklist Print

January-13-12 7:06:53 AM

Page 1

Work Order ID: 78709

\*78709\*

Parent Item: D3162-041

\*D3162-041\*

Parent Item Name: Bracket Assembly

Start Date: 12/01/2012

Required Date: 26/01/2012

Start Qty: 20.00

Required Qty: 20.00

Comments: IPP A 02.05.14New IssueNG  
IPP Rev:B 08-01-15 now on water jet DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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MS20426AD3-4

Purchased

No

100

Each

4,364.000

2

40

\*MS20426AD3-4\*

\*\*

RIVET

Location

Loc Qty

Loc Code

ST316

4364

104374

1060

110398

3304

M6061T6S.063

Purchased

No

150

sf

162.0696

0.0072

0.151579

\*M6061T6S 063\*

\*\*

6061-T6 .063 Sheet

Location

Loc Qty

Loc Code

MAT021

162.0695684

113608

0

116308

11.9555684

117285

75.414

119331

49.2

119802

25.5

MS21059L3

Purchased

No

150

Each

123.0000

1

20

\*MS21059L 3\*

\*\*

Nut Plate

Location

Loc Qty

Loc Code

ST301

123

118614

23

119546

100

12/08/23  
M12/01/11

12-8-16

121805  
12/08/23  
M122452

**Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

**Part No:** \_\_\_\_\_ **PAR #:** \_\_\_\_\_ **Fault Category:** \_\_\_\_\_ **NCR: Yes No** **DQA:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
**Resolution:** \_\_\_\_\_ **Disposition:** \_\_\_\_\_ **QA: N/C Closed:** \_\_\_\_\_ **Date:** \_\_\_\_\_

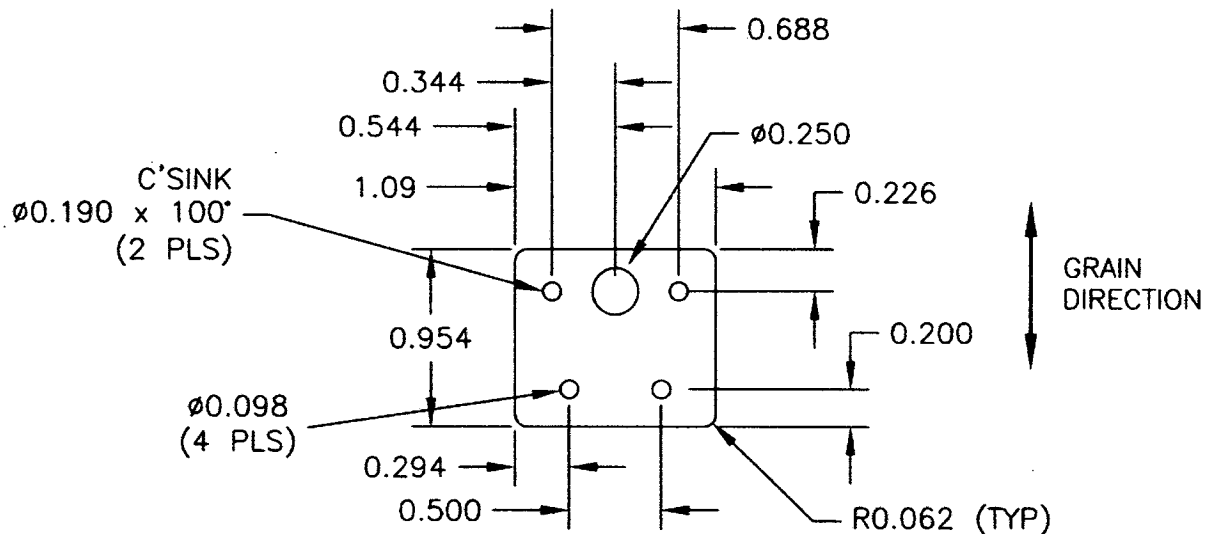
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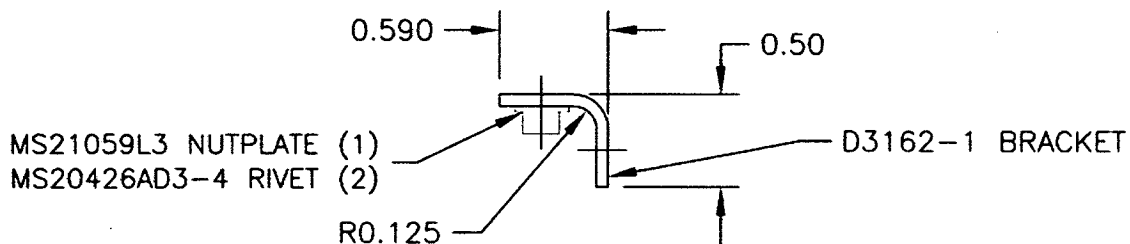


DESIGN DS	DRAWN BY RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED 	APPROVED 	DRAWING NO. D3162	REV. C SHEET 1 OF 2
DATE 05.10.05	TITLE BRACKET ASSEMBLY		SCALE 1:1
A	02.04.30	NEW ISSUE	
B	04.10.18	ADD PART MARKING	
C	05.10.05	ADD D3162-3/-4	

05-12-05



D3162-1F FLAT PATTERN  
(USED TO MAKE D3162-1 BRACKET)



D3162-041 BRACKET ASSEMBLY

**NOTES:**

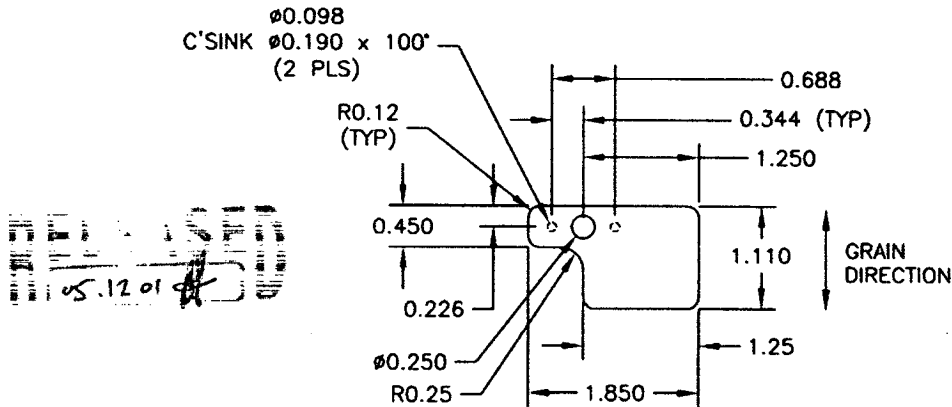
- 1) MATERIAL: 6061-T6 (QQ-A-250/11) 0.063 THICK (REF. DART SPEC. M6061T6S.063)
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) BREAK EDGES 0.005 TO 0.010
- 5) ALL DIMENSIONS ARE IN INCHES
- 6) IDENTIFY WITH DART P/N USING FINE POINT PERMANENT INK MARKER

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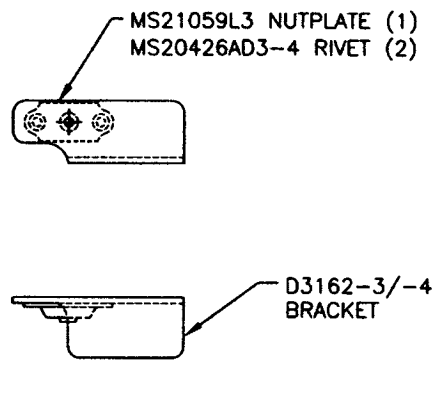
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DESIGN DS	DRAWN BY RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3162	REV. C SHEET 2 OF 2
DATE 05.10.05		TITLE BRACKET ASSEMBLY	SCALE 1:2



**D3162-3F FLAT PATTERN**  
(USED TO MAKE D3162-3/-4 BRACKETS)



**D3162-043 BRACKET ASSEMBLY (SHOWN)**  
(D3162-044 BRACKET ASSEMBLY (OPPOSITE))

**NOTES:**

- 1) MATERIAL: 6061-T6 (QQ-A-250/11) 0.063 THICK (REF. DART SPEC. M6061T6S.063)
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) BREAK EDGES 0.005 TO 0.010
- 5) ALL DIMENSIONS ARE IN INCHES
- 6) IDENTIFY WITH DART P/N USING FINE POINT PERMANENT INK MARKER

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